

EIF3S1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7261c**Specification**

EIF3S1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O75822](#)**EIF3S1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 8669**Other Names**

Eukaryotic translation initiation factor 3 subunit J {ECO:0000255|HAMAP-Rule:MF_03009}, eIF3j {ECO:0000255|HAMAP-Rule:MF_03009}, Eukaryotic translation initiation factor 3 subunit 1 {ECO:0000255|HAMAP-Rule:MF_03009}, eIF-3-alpha {ECO:0000255|HAMAP-Rule:MF_03009}, eIF3 p35 {ECO:0000255|HAMAP-Rule:MF_03009}, EIF3J {ECO:0000255|HAMAP-Rule:MF_03009}

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7261c](/products/AP7261c) was selected from the N-term region of human EIF3S1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EIF3S1 Antibody (N-term) Blocking Peptide - Protein Information**Name** EIF3J {ECO:0000255|HAMAP-Rule:MF_03009}**Function**

Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed: [25849773](http://www.uniprot.org/citations/25849773), PubMed: [27462815](http://www.uniprot.org/citations/27462815)). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal

subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03009}.

EIF3S1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

EIF3S1 Antibody (N-term) Blocking Peptide - Images**EIF3S1 Antibody (N-term) Blocking Peptide - Background**

Eukaryotic initiation factor-3 (EIF3) has a molecular mass of about 600 kD and contains 13 nonidentical protein subunits, including EIF3J. EIF3 plays a central role in binding of initiator methionyl-tRNA and mRNA to the 40S ribosomal subunit to form the 40S initiation complex.

EIF3S1 Antibody (N-term) Blocking Peptide - References

Fraser,C.S., Mol. Cell 26 (6), 811-819 (2007)ElAntak,L., J. Biol. Chem. 282 (11), 8165-8174 (2007)Fraser,C.S., J. Biol. Chem. 279 (10), 8946-8956 (2004)